

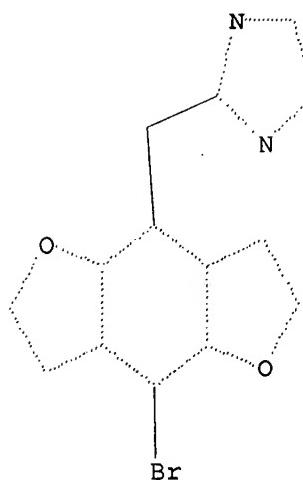
**BEST AVAILABLE COPY****EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	494	548/311.1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:48
L2	130	I1 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:52
L3	27	548/315.4 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:52
L4	10	548/347.1 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:53
L5	2	548/355.1 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:54
L6	31	549/429 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:55
L7	16	549/460 and (ocular or eye)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/04 17:55

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548/ 311.1  
315.4  
347.1 355.1

541/ 310  
A10



Structure attributes must be viewed using STN Express query preparation.

=> s l1 all

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> s l1 full

FULL SEARCH INITIATED 10:20:01 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 290 TO ITERATE

100.0% PROCESSED 290 ITERATIONS  
SEARCH TIME: 00.00.01

2 ANSWERS

L2 2 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
172.10	172.31

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:20:09 ON 04 JAN 2007  
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FILE COVERS 1907 - 4 Jan 2007 VOL 146 ISS 2  
FILE LAST UPDATED: 3 Jan 2007 (20070103/ED)

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=> s l2  
L3                1 L2

=> d ibib abs hitstr 1

**BEST AVAILABLE COPY**

10525410

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003-511144 CAPLUS

DOCUMENT NUMBER: 139:85345

TITLE: Preparation of novel benzodifuranimidazolines and benzofuranimidazolines for the treatment of glaucoma

INVENTOR(S): Feng, Zixia; Hellberg, Mark R.

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

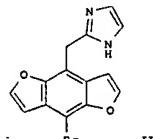
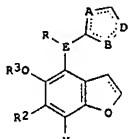
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053436	A1	20030703	WO 2002-US39316	20021209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MX, MN, MW, MY, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TH, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
TW 593302	B	20040621	TW 2002-91134883	20021129
CA 2469904	A1	20030703	CA 2002-2469904	20021209
AU 2002353088	A1	20030709	AU 2002-353088	20021209
EP 1455780	A1	20040915	EP 2002-790063	20021209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002015172	A	20041019	BR 2002-15172	20021209
CN 1606441	R	20050413	CN 2002-825464	20021209
JP 2005513103	T	20050512	JP 2003-554193	20021209
ZA 2004004473	A	20050607	ZA 2004-4473	20040607
US 2006009503	A1	20060112	US 2005-525410	20050128
PRIORITY APPLN. INFO.:			US 2001-343378P	P 20011220
			WO 2002-US39316	W 20021209

OTHER SOURCE(S): MARPAT 139:85345

GI

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. [I; A, B, D = N, C, with the proviso that at least one of A, B or D = N; E = C, N; R = H, alkyl; R2, R3 = H, alkyl, alkenyl, CF3], or R2 and R3 together can form 5-6 membered ring; X = H, halo, alkyl, CF3], useful for lowering intraocular pressure and providing ocular neuroprotection, were prepared. E.g., a multi-step synthesis of II-HCl, starting with bis(2-hydroxyethyl)hydroquinone, was given. The compound II-HCl showed IC50 of 0.46 nM and 6.4 nM against 5-HT2 and 5-HT1A receptor

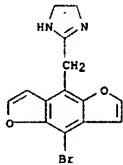
binding, resp. The compound II-HCl showed EC50 of 110 nM against  $\alpha$ 2A receptor binding. The pharmaceutical compns. comprising compds. I were claimed.

IT 554402-13-OP  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel benzodifuranimidazolines and benzo furanimidazolines for the treatment of glaucoma)

RN 554402-13-0 CAPLUS

CN 1H-Imidazole, 2-[(8-bromobenzo(1,2-b:4,5-b')difuran)methyl]-4,5-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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G2:H,CF2,CF3,X,[\*1],[\*2],[\*3],[\*4]

G3:H,[\*1],[\*2],[\*3],[\*4]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 20:CLASS 21:CLASS 22:CLASS  
23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 34:CLASS  
36:CLASS

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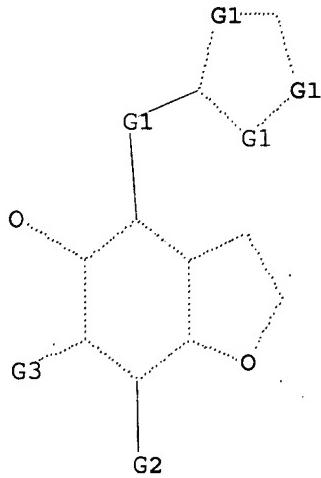
=> d

L4 HAS NO ANSWERS

L4 STR

1

2  
3  
4



G1 C,N

G2 H,CF2,CF3,X,[@1],[@2],[@3],[@4]

G3 H,[@1],[@2],[@3],[@4]

Structure attributes must be viewed using STN Express query preparation.

=> s 14 full

FULL SEARCH INITIATED 10:28:36 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 184099 TO ITERATE

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100.0% PROCESSED 184099 ITERATIONS ( 1 INCOMPLETE) 9 ANSWERS  
SEARCH TIME: 00.00.01

L5 9 SEA SSS FUL L4

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

172.10 350.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
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FILE COVERS 1907 - 4 Jan 2007 VOL 146 ISS 2  
FILE LAST UPDATED: 3 Jan 2007 (20070103/ED)

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=> s 15  
L6 4 L5

=> d ibib abs hitstr 1-4

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L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:511144 CAPLUS

DOCUMENT NUMBER: 139:85345

TITLE: Preparation of novel benzodifuranimidazolines and benzofuranimidazolines for the treatment of glaucoma

INVENTOR(S): Feng, Zixia; Hellberg, Mark R.

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

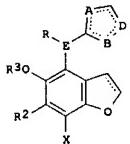
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

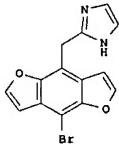
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053436	A1	20030703	WO 2002-US39316	20021209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TH, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
TW 593302	B	20040621	TW 2002-91134883	20021129
CA 2469904	A1	20030703	CA 2002-2469904	20021209
AU 2002353088	A1	20030709	AU 2002-353088	20021209
EP 1455780	A1	20040915	EP 2002-790063	20021209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002015172	A	20041019	BR 2002-15172	20021209
CN 1606441	A	20050413	CN 2002-825464	20021209
JP 2005513103	T	20050512	JP 2003-554193	20021209
ZA 2004004473	A	20050607	ZA 2004-4473	20040607
US 2006009503	A1	20060112	US 2005-525410	20050128
PRIORITY APPLN. INFO.:			US 2001-343378P	P 20011220
			WO 2002-US39316	W 20021209

OTHER SOURCE(S): MARPAT 139:85345

GI



I



II

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:846926 CAPLUS

DOCUMENT NUMBER: 136:119162

TITLE: Preparation and characterization of a new solvent-free

AUTHOR(S): Tsutsumi, Hiromi; Shirotani, Rumiko; Onimura, Kenjiro; Oishi, Tsutomu

CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Yamaguchi, 755-8511, Japan

SOURCE: Electrochemical and Solid-State Letters (2001), 4(12), A195-A196

PUBLISHER: CODEN: ESLEF6; ISSN: 1099-0062

DOCUMENT TYPE: Electrochemical Society

LANGUAGE: English

AB Solvent-free solid polymer electrolytes based on spiropolymers were prepared and their properties were confirmed by conductance, differential scanning calorimetry, and X-ray diffraction measurements. The spiropolymer was synthesized from the bicyclic diketone and pentaerythritol. The spiro-polyketal (SP) dissolves lithium perchlorate and the conductivity of the

(SP)1.5(LiClO<sub>4</sub>) complex is 4.24 + 10<sup>-5</sup> S cm<sup>-1</sup> at 30° and 3.83 + 10<sup>-4</sup> S cm<sup>-1</sup> at 60°.

IT 391671-11-7 CAPLUS  
RL: POF (Polymer in formulation); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(preparation and characterization of a new solvent-free polymer electrolyte based on spiroketal structure)

RN 391671-11-7 CAPLUS  
CN Poly(3''a,6''a-diethyltetrahydropyridino[1,3-dioxane-5,5'-(1,3)dioxane-2',2'-(1''H)-pentalene]-2,5'-(3''H)-diylidene) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The title compds. [I; A, B, D = N; C, with the proviso that at least one of A, B or D = N; E = C, N; R = H, alkyl; R<sub>2</sub>, R<sub>3</sub> = H, alky1, alkenyl; or R<sub>2</sub> and R<sub>3</sub> together can form 5-6 membered ring; X = H, halo, alkyl, CF<sub>3</sub>], useful for lowering intraocular pressure and providing ocular neuroprotection, were prepared. E.g., multi-step synthesis of II.HCl, starting with bis(2-hydroxyethyl)hydroquinone, was given. The compound II.HCl showed IC<sub>50</sub> of 0.46 nM and 6.4 nM against 5-HT2 and 5-HT1A receptor binding, resp. The compound II.HCl showed EC<sub>50</sub> of 110 nM against α2A receptor binding. The pharmaceutical compns. comprising compds. I were claimed.

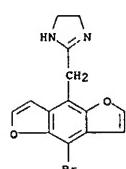
IT 554402-13-0

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel benzodifuranimidazolines and benzofuranimidazolines for the treatment of glaucoma)

RN 1H-Imidazole, 2-[1-(8-bromobenzo[1,2-b:4,5-b']difuran)methyl]-4,5-dihydro-

monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:796779 CAPLUS

DOCUMENT NUMBER: 124:29656

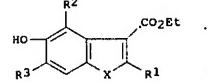
TITLE: Synthesis and some pharmacological properties of indole and benzofuran derivatives containing an imidazole pharmacophore

AUTHOR(S): Zotova, S. A.; Shvedov, V. I.  
CORPORATE SOURCE: Tskhls, VNIKhFI, Moscow, Russia

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1994), 28(2), 22-4

CODEN: KHFZAN; ISSN: 0023-1134

PUBLISHER: Meditsina  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
GI



AB Title compds. I (X = NMe, O; R1 = Me, Ph, CH<sub>2</sub>OPh, CH<sub>2</sub>SPh; R2 = imidazol-1-ylmethyl, Cl, H, CH<sub>2</sub>NMe<sub>2</sub>, indol-3-ylmethyl, CH<sub>2</sub>CH<sub>2</sub>CONHPh; R3 = H, Br, imidazol-1-ylmethyl, CH<sub>2</sub>NMe<sub>2</sub>) were prepared by alkylation of imidazole with Mannich bases or by its reaction with bromoalkyl derivs. The synthesized compds. showed weak antimicrobial and anesthetic activity.

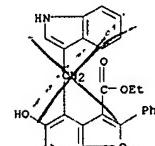
IT 171506-83-5B

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and pharmacol. activity of)

RN 171506-83-5 CAPLUS

CN 3-Benzofuran carboxylic acid, 5-hydroxy-4-(1H-indol-3-ylmethyl)-2-phenyl-ethyl ester (9CI) (CA INDEX NAME)



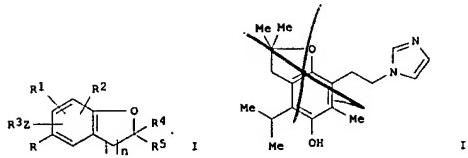
Karen Cheng

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L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995-543579 CAPLUS  
 DOCUMENT NUMBER: 122:314550  
 TITLE: Preparation of (imidazolylalkyl)benzofurans and analogs as TXA2 synthetase and 5-lipoxygenase inhibitors and oxygen scavengers  
 INVENTOR(S): Ohuchida, Shuichi; Nambu, Fumio; Toda, Masaaki  
 PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 151 pp.  
 CODEN: EPVXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

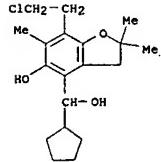
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 640609	A1	19950301	EP 1994-306175	19940822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE CA 2117551	A1	19950225	CA 1994-2117551	19940823
JP 07112980	A	19950502	JP 1994-221003	19940823
US 5534536	A	19960709	US 1994-294015	19940823
TW 403743	B	20000901	TW 1994-63107705	19940823
CN 1110969	A	19951101	CN 1994-117330	19940824
KR 192134	SI	19990615	KR 1994-20872	19940824
US 5750544	A	19980512	US 1996-625318	19960419
PRIORITY APPLN. INFO.:			JP 1993-231004	A 19930824
		US 1994-294015		A3 19940823

OTHER SOURCE(S): MARPAT 122:314550  
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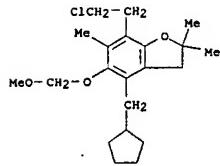


AB Title compds. [I: R = OH, alkoxy, OBz, (di)(alkyl)amino, etc.; R1,R2 = H, halo, (cyclo)alkyl, alkoxy, etc.; R3 = 1 or 2 N-containing heterocycl; R4,R5 = H, (phenyl)alkyl; CR4R5 = cycloalkyl; Z = alk(en)ylene, alkyleneoxy, (CH2)1-6021; 21 = 1,4-phenylene; n = 1-3] were prepared Thus, title compound II.HCl, prepared in 14 steps from 3-isopropyl-5-methylphenol, gave 74 and 92% inhibition of LTB4 and TXB2 production in whole human blood at 10μM in

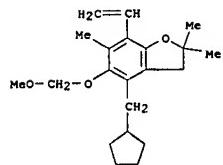
L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



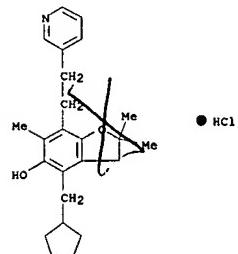
RN 162963-71-5 CAPLUS  
 CN Benzo furan, 7-(2-chloroethyl)-4-(cyclopentylmethyl)-2,3-dihydro-5-(methoxymethoxy)-2,2,6-trimethyl- (9CI) (CA INDEX NAME)



RN 162963-72-6 CAPLUS  
 CN Benzo furan, 4-(cyclopentylmethyl)-7-ethenyl-2,3-dihydro-5-(methoxymethoxy)-2,2,6-trimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 vitro.  
 IT 162962-70-1P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of (imidazolylalkyl)benzofurans and analogs as TXA2 synthetase And 5-lipoxygenase inhibitors and oxygen scavengers)  
 RN 162962-70-1 CAPLUS  
 CN 5-Benzofuranol, 4-(cyclopentylmethyl)-2,3-dihydro-2,6-trimethyl-7-(2-(3-pyridinyl)ethyl)-, hydrochloride (9CI) (CA INDEX NAME)



IT 162963-70-4P 162963-71-5P 162963-72-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of (imidazolylalkyl)benzofurans and analogs as TXA2 synthetase And 5-lipoxygenase inhibitors and oxygen scavengers)  
 RN 162963-70-4 CAPLUS  
 CN 4-Benzofuranmethanol, 7-(2-chloroethyl)-α-cyclopentyl-2,3-dihydro-5-hydroxy-2,2,6-trimethyl- (9CI) (CA INDEX NAME)

Karen Cheng